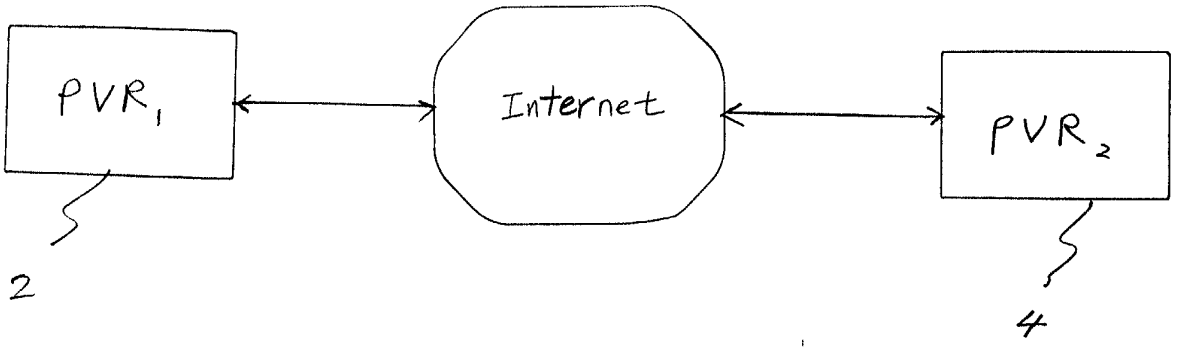


FIG. 1

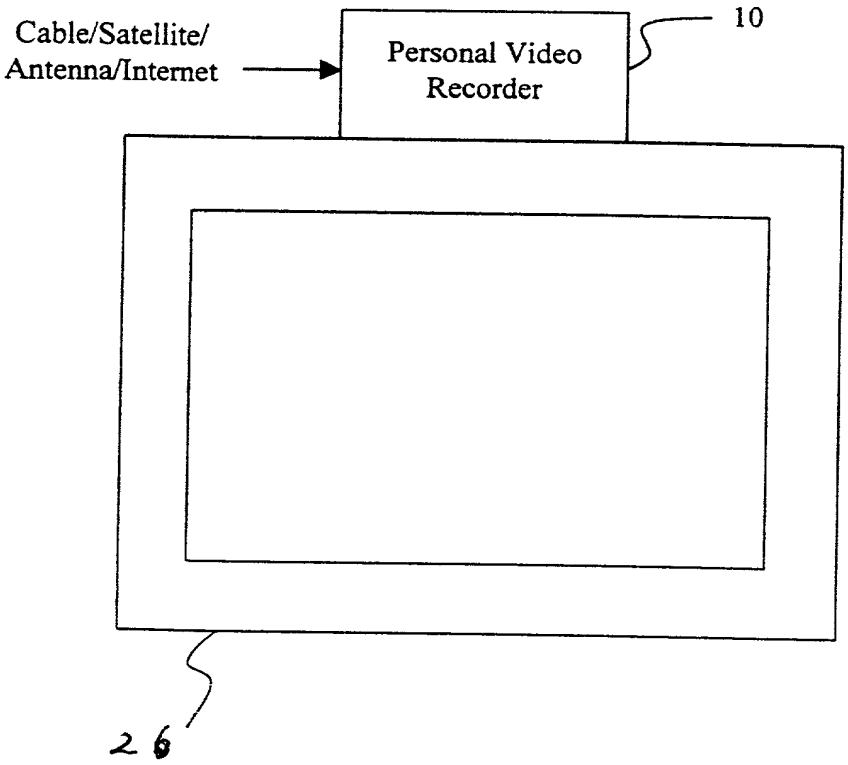

Cable/Satellite/
Antenna/Internet
Personal Video
Recorder
10
26

FIG 2

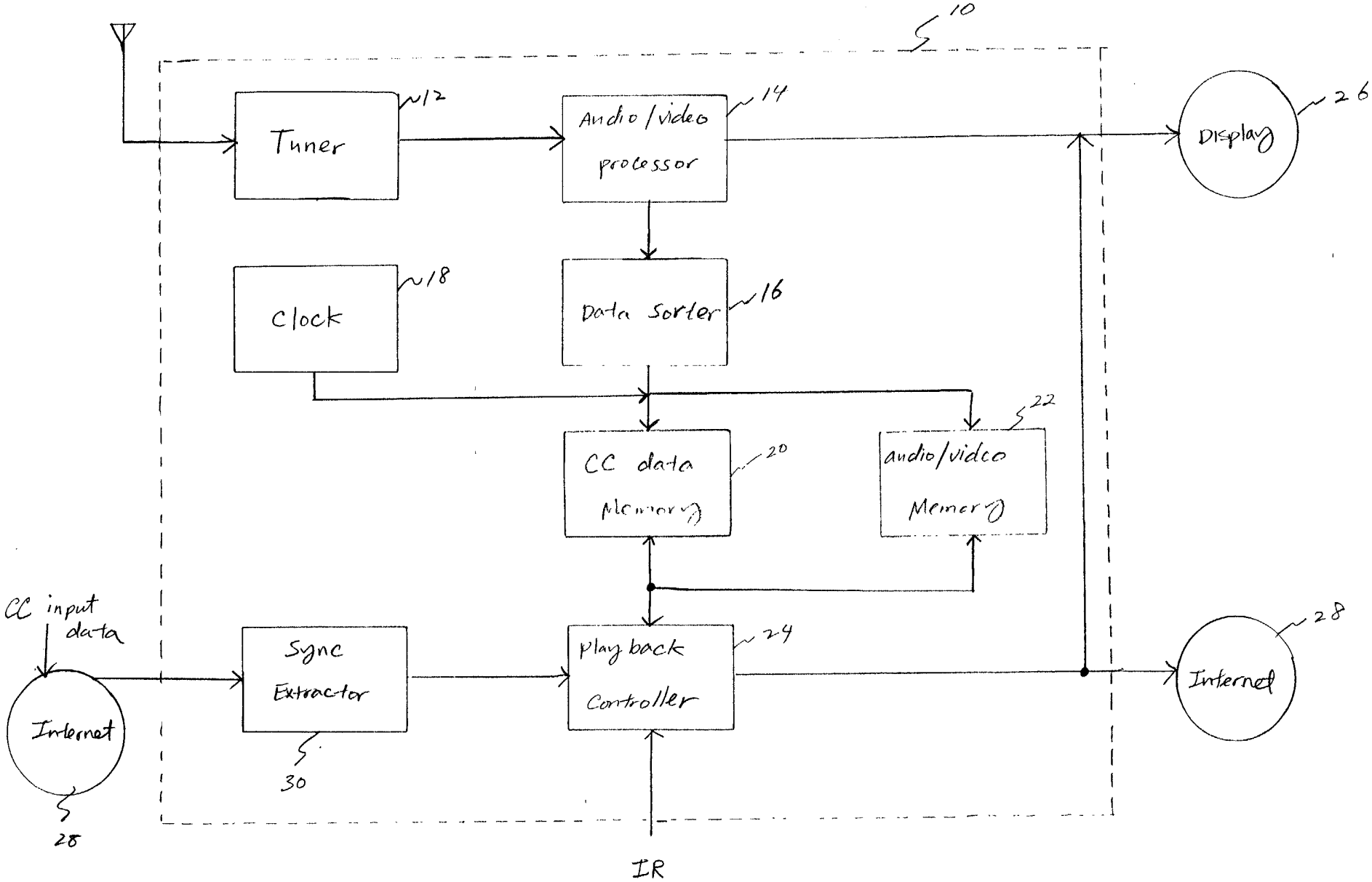

10
Tuner
12
Audio/video processor
14
Display
26
Clock
18
Data Sorter
16
CC data Memory
20
audio/video Memory
22
CC input data
Internet
28
Sync Extractor
30
Playback Controller
24
Internet
28
IR

FIG 3

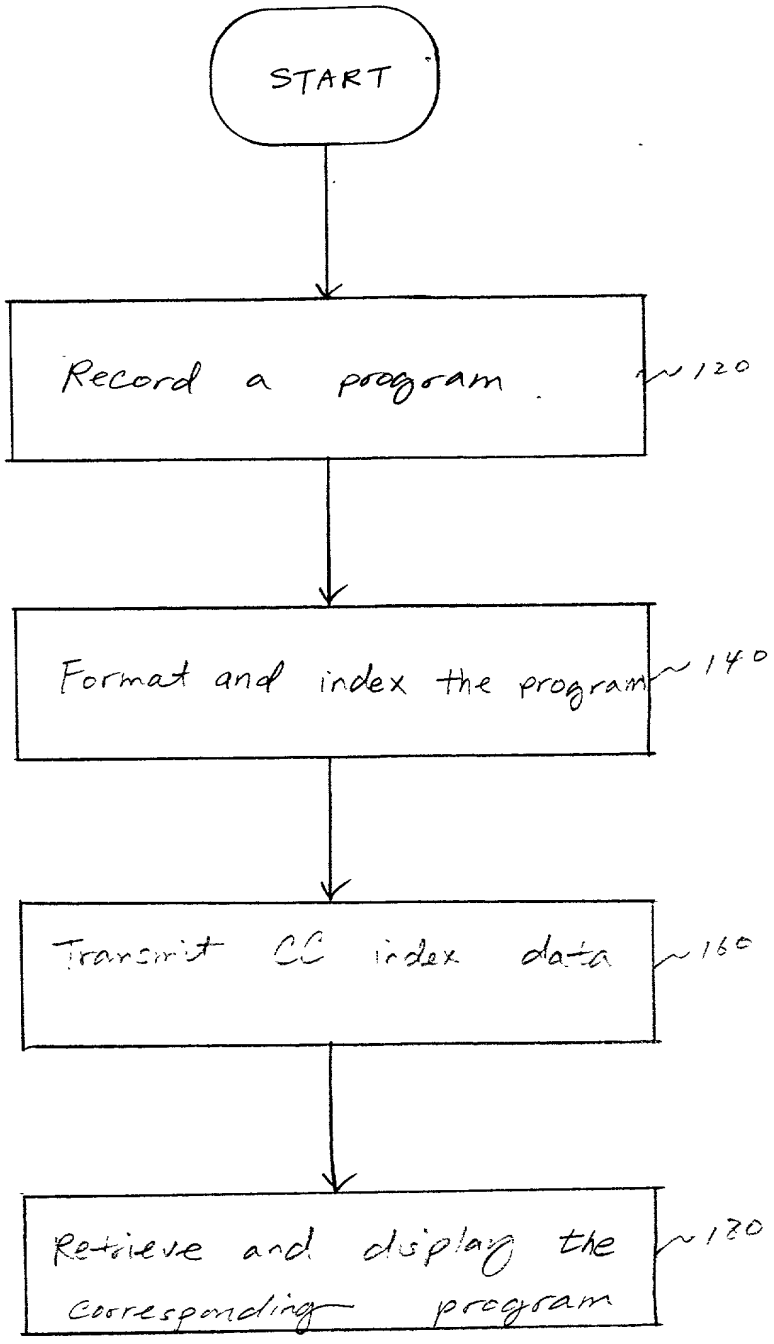
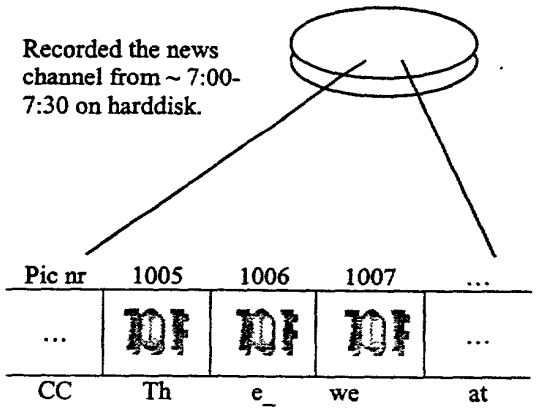

START
Record a program
120
Format and index the program
140
Transmit CC index data
160
Retrieve and display the corresponding program
180

FIG. 4

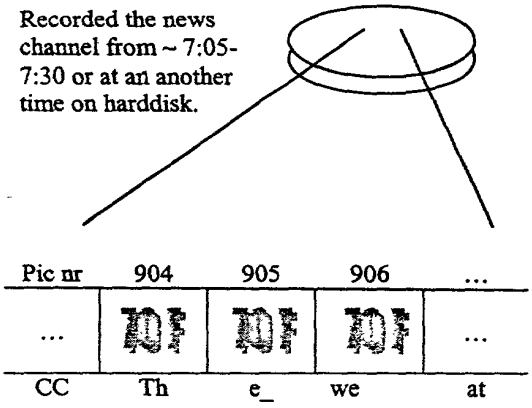
PVR1



Index file for "theNewsChannel0700pm0730pm"

Closed Caption (CC)	Picture nr (or position)
..	..
Th	1005
e_	1006
we	1007
at	1008
th	1009
er	1010
_f	1011
or	1012
_t	1013
od	1014
ay	1015
...	...

PVR2



Index file for "theNewsChannel0705pm0730pm"

Closed Caption (CC)	Picture nr (or position)
..	..
Th	904
e_	905
we	906
at	907
th	908
er	909
_f	910
or	911
_t	912
od	913
ay	914
...	...

FIG. 5